

## **Technical Description of Monteverde One Touch Tool Pen**

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(Amazon, nd)

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## Technical Description of Monteverde One Touch Tool Pen

### What is a Tool Pen

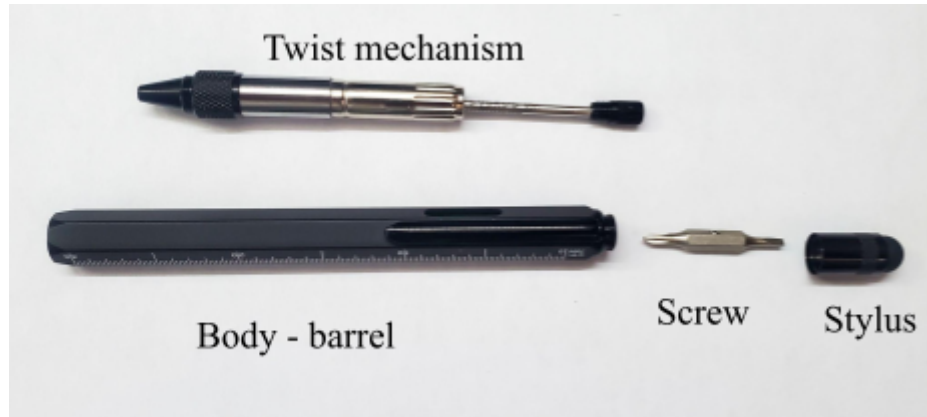
A tool pen, also called a multifunction pen, multi-tool pen, or construction pen is a pen that is styled with hardware. Usually a ballpoint pen, but it can be a mechanical pencil or fountain pen and is usually built with other hardware tools like screws. There are a lot of tool pens from different makers, but most of them have a common design: a hexagonal body with a ruler printed on it, a twist mechanism pen, a stylus, and a screw under the stylus.

A Tool pen is a convenient everyday-carry tool. It is a tool designed to help do simple tasks, like measuring, drawing, and sketching lines, screwing small knots, and stylus for phones. It is a convenient tool for those who have to write or draw while measuring or opening things, like architects, designers, electricians, or in any other occupation that requires working with small tools. It is also a tool that comes in handy when doing things that need small tools like opening and changing keyboard batteries, measuring, and many other things. Tool pens can replace tools like small screwdrivers, rulers, or stylus other tools depending on the model and the function that comes in the pen. It is a useful tool, and it is good to keep one on a desk or in a pocket or bag.

### History of the company

Monteverde is a pen brand of Yafa Pen Companies, which was founded in 1978 by Yair Jerry Greenberg. Yafa manufactures and distributes Monteverde and Conklin brand pens and refills, which are currently available in over 40 countries (Yafa, *About Us* 2018). Besides Monteverde, the company owns Conklin, a fountain pen company established in 1898 and acquired in 2009. Yafa is also a North American distributor of well-known Italian and German stationery brands. The Monteverde brand was established in 1999, and with its various product lines in pens, inks, and refills, the company is “recognized as one of the world’s largest producers of inks and refills,” (Monteverde, *About Us*, 2020). With the Monteverde brand, Yafa was “the first to introduce stylus pens to the market,” (Yafa *About Us*, 2018). With its brands and product ideas, the company aimed to be a platform for “innovative new ways of getting peoples’ ideas from pen to paper,” (Yafa *About Us*, 2018).

## Product specification



(Figure 1: Parts of the Pen)

The product has different color options. The product shown in the picture above is a black model with scales.

The dimensions of the Monteverde One Touch Tool Pen are 5.9 x 0.8 x 0.8 inches. The pen has 4 parts: barrel (and the spirit level), double-sided screwdriver, stylus tip, and the grip part which is the twist mechanism for the pen (and the refill that comes with it). The body of the pen, the barrel, is 6-sided and measures 4 inches. The screwdriver is  $\frac{3}{4}$  of an inch, and the stylus tip is 1 inch long. Pen is made of brass, and the stylus is made of rubber. Refills are replaceable. The pen uses a standard D1 refill, 2.6 inches long, and while the company produces its refills, any other D1 size refill fits into the pen. The pen comes with a medium refill which has a ball size of 0.7mm. The ballpoint comes out by twisting the grip. The double-sided screwdriver has Philips on one side and a flat head on another, both 2 millimeters wide.

## Using the Tool Pen

The body of the pen, the barrel, has 4 types of rulers printed on it. Scale by inches, centimeters, and other two,  $\frac{1}{200}$  scale and  $\frac{1}{300}$  scale, which are

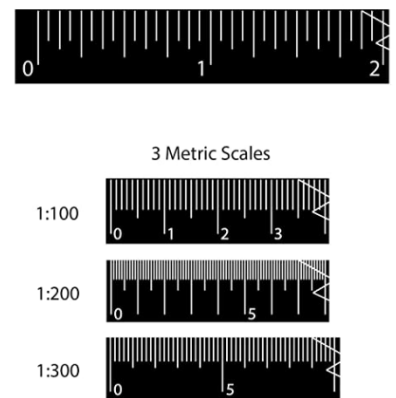


Figure 2: 4 scales on the barrel (Monteverde Tool Pen 2020).

often used in model building, especially for miniatures in aircraft, houses, and ships. The body is made of brass, and there's less need to worry about breaking the pen. The pen is 6-sided, and 4 sides are printed with the scales, each scale on one side. The entire body is 4 inches long, so it can be used as a ruler for anything smaller than 4 inches. It can be used to measure, mark on the surface, or draft small sketches on scales.

On the end of the pen is the touchscreen stylus. The stylus tip is a cap, which can be opened by twisting. Inside the body and the stylus tip is the double-sided screwdriver, small in size that fits into small screws. To change the side of the screwdriver, pull the screwdriver out, change the side, and push it in. The part will fit inside. Close the stylus tip when finished using it.

On the tip of the pen, there is a round, metal grip. Twist it in counter-clockwise, to the opposite direction of the barrel, and the ballpoint will come out. Twist it softly, and it will reach the end when twisted 180 degrees. To put it back, twist toward the other direction, 180 degrees. To replace a refill, hold the grip, and pull it out. When you do, the grip will come out from the barrel, along with the twist mechanism attached to it. At the tip of the mechanism, there is small, cylindrical plastic. That is the part that holds the D1 refill. There is a cross-section on the plastic cylinder. Use a small screwdriver to unscrew it and remove the refill. The pen's screwdriver fits perfectly, but other small screwdrivers are fine. Pull out the plastic cylinder (this is crucial, the plastic cylinder is what twists along the mechanism to dispense the pen tip) and fill the hole with a new D1 refill. Put it into the twist mechanism, screw it inside, and push the mechanism back into the body.



Figure 3: Cross section for a screwdriver at the top of the refill. (Amazon, nd)

Out of 6 sides, two sides aren't printed with any rulers. One is the side with a clip and on the next side, right next to the clip, there is a spirit level. Spirit levels are used to check if the surface is tilted. There are two lines on the spirit level and an air bubble. If it is laid on a horizontal surface, the air bubble comes between the lines, at the center of the spirit level. Put the pen on any of the surfaces and check the air bubble. It tells whether it is flat, laid horizontally, or not.

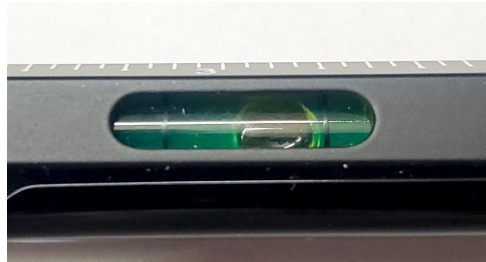


Figure 4: Spirit level (Amazon, nd)

## **Conclusion**

The Monteverde One Touch Tool Pen is a useful tool that can conduct many works without other tools. The pen comes with 9 functions: 4 different measurements (scaling), two screwdrivers, a stylus, a pen, and a spirit level. Those nine functions are combined to perform many works with the pen alone, making things much more convenient than carrying different tools. The pen can replace many other tools and makes working easier.

## References

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